NAVSEA

NAVAL SEA SYSTEMS COMMAND

VALIDATION WORKING GROUP

SOFTWARE CONFIGURATION VALIDATION & AUDITS

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S/W Configuration Validations & Audits

- CM Policy Exists for Hardware & Software
  - process established & articulated
- Fleet & SEA 53 Requirement
- Prototype TR BG 01
  - with ~27 systems
- NAVSEA Leads:
  - SEA 04L526 D. Caroline Kowalsky
  - SEA 53 Billy Douglas

S/W Configuration Validations & Audits

- Software CM Working Conference
  - Coastal Systems Station Panama City, FL
  - 10-11 September 2002
  - Agenda
    - Socialize CM instruction
    - Process
      - CDMD-OA Procedures
      - Validation/Audit Procedures
    - Status of Prototype
    - Next steps

S/W Configuration Validations & Audits

- Process - Similar to Hardware validations
  - Validation - Part of C5RA
    - Validation Team creates VALAID
    - Verify version and media
    - Report out SEA 53 for conflict resolution
    - Report out SSA/ISEA ---- CDMs
  - Audits - Part of SCLSIS
    - Validation Team creates VALAID
    - Verify version
    - Report out of SEA 53 for conflict resolution
    - Report out SSA/ISEA ---- CDMs

S/W Configuration Validations & Audits

- FOCUS
  - Validations: 100% of Prototype Equipments
    - ~ 27
  - Audits: 100% of Prototype Equipments &
    - AND 2% of all other Software
- Data QUALIFIERS
  - VALAID CDMD-OA
    - Equipment Discipline = "V"
    - VSAC = SFTWR
    - PRID = media (disk, floppy, tape)

S/W Configuration Validations & Audits

- **FEEDBACK LOOP**
  - Work Files to CDM
    - For Prototype SEA 04L5 Rep assigning X-RIC and monitoring input into OA
  - Regular Report out of METRICS findings to FLEET and shore Community
- **METRICS**
  - a. Is the recorded software configuration data accurate?
  - b. Degree of change to the established baseline over a given time, categorized by type of change.
  - c. Emergent Changes. Categorized by when the changes are made (before/after TCD etc.)
  - d. Number of records per system – Initialization, maintenance (monthly), and end of prototype?
  - e. Number of records and reports sent to SEA 53.

S/W Configuration **Validations** & Audits

SEA 53 provides list of 27 systems nomenclatures

VALTEAM queries CDMD-OA for specific BG Platforms S/W records for 27 core systems (100%)

VALTEAM creates VALAID

Validate core systems

Report out to SEA 53 for conflict resolution

Report out to ISEA/SSA for processing
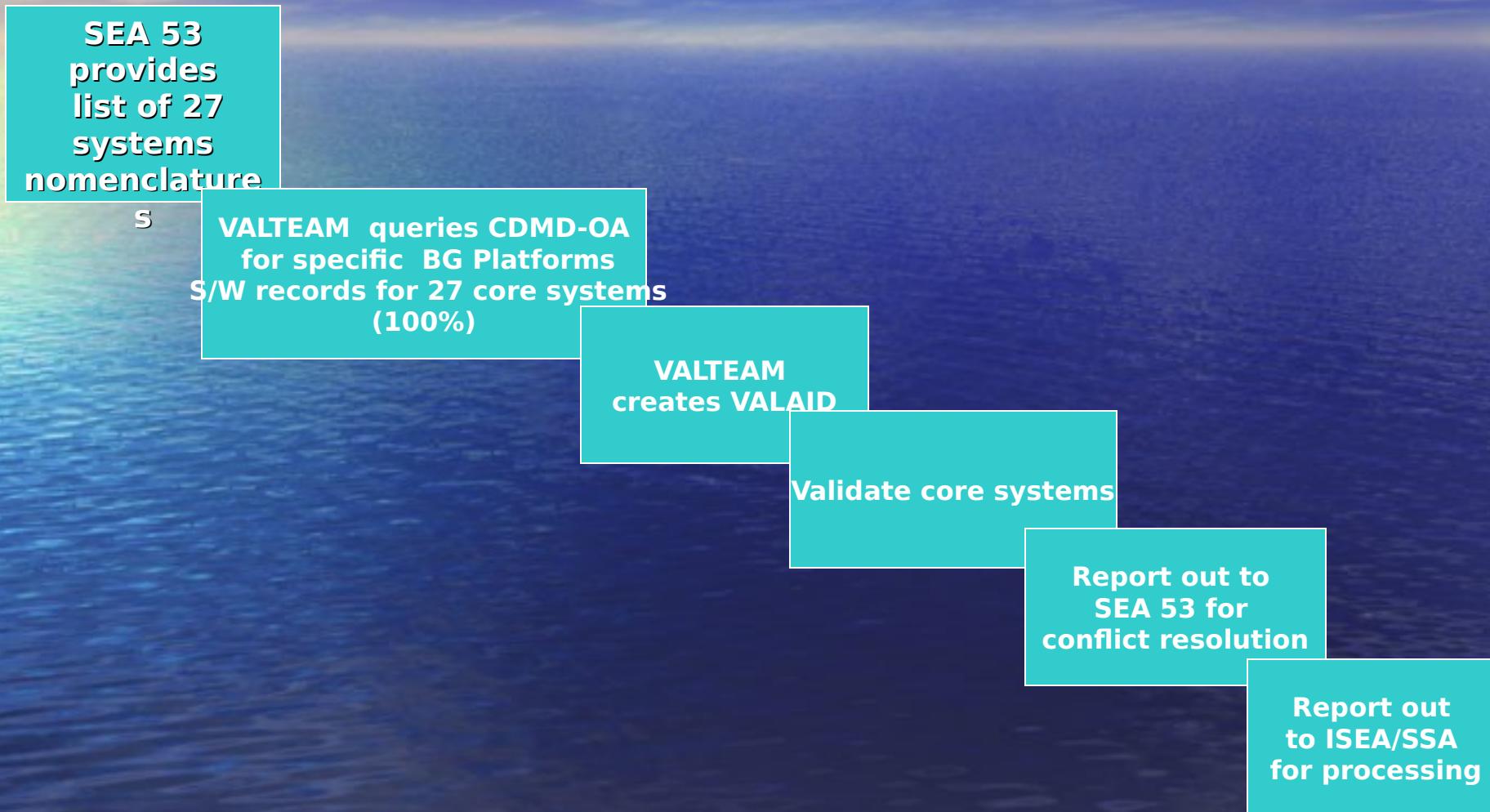
S/W Configuration Validations & **Audits**

TEAM queries CDMD-OA for specific Platform S/W records (2%)

Delete 27 core systems from

the records

VALAID Created

Conduct Audit

Report out to SEA 53 for conflict resolution

Report out to ISEA/SSA for processing

S/W Configuration Validations & Audits

BACK UP SLIDES

NOTES:

(1) DETERMINE
A. If S/W Version is same across ship class and the NHA is the same
B. If S/W Version is same but NHA is different per ship class
C. If S/W Version is different but NHA is the same
D. If S/W Version is different for each equipment variant
E. ...or a combination of any of the above

(2) Request set of sequential XRIC numbers from SEA04L for prototype
(K. Sheets or J. Curry)

(3) ENTER:
TAB A: RIC_NM = Software Version
TAB B: CAGE EIW = Software Version ID
TAB C: C=SW:(Software Version ID):(Media):(Serial#,if known)

(4) Create CDMD-OA work files as is normal for each system process and naming convention
(EX. SOFTWARECGXX CGXX being TYPE and HULL NUMBER)

(5) Mandatory Fields Needing Change
ACTION CODE = A
DISCPL = V
EIN = Software Version (If exceeds 26 characters enter until field is filled)
RIC = XSFT00 _ _ _ _
DISI = A
SN = media type (CODE)
P RIC = hardware RIC
P SN = hardware SN
NHA = parent EIN
SAC = software
EFD = parent system + software

Media Type
HD = Hard Disk
FD = Floppy Disk
CT = Cassette
MT = Magnetic Tape
CD = CD ROM
FW = Firmware

A

Define Software Versions and Parent Equipment

Determine Number of XRICs Required
Note 1

Request Set of XRIC Numbers from SEA04L
Note 2

Open XRIC File

Enter XSFT00 as the UIC for each requested XRIC (XSFT00 and Sequential Number)

Enter S/W Version Information in Tabs A, B, & C
Note 3

Repeat? — YES / NO

Save XRICS

Select and Copy Parent Hardware RT2s

Name New Workfile
Note 4

Save New Work File

Open Work File in Queue

Enter XRIC Number in Place of RIC

Modify Parent RT2 Record Data in Work File to Reflect Software
Note 5

Perform Record Check and Correct any Noted Errors

Save Modified Work File

Repeat? — NO / YES

Save and Rename Work File

Submit Work File to CDM

B

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